

Patent Application
Attorney Docket No.: 62687.000101
Client Reference No.: D-00004-US

APPENDIX A

1 (Currently Amended). An optical jumper comprising:

a casing having an exposed end and a connector end;—and

an optical fiber having a first connector on a first end and a second connector on a second end, wherein said first connector and said second connector are disposed at said connector end; and

~~a magnet carried by said casing for engaging a sensor in a mounting device, and wherein said optical fiber has an inner bend radius greater than approximately 0.4 inches so as to reduce optical loss therein.~~

2 (Currently Amended). The optical jumper according to claim 1 ~~further comprising—~~

~~a magnet carried by said casing for engaging a sensor in a mounting device and~~ wherein said optical fiber has an inner bend radius greater than approximately 0.4 inches.

3 (Currently Amended). The optical jumper according to claim 12 wherein said magnet is located between said first connector and said second connector.

4 (Original). The optical jumper according to claim 1 further

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comprising:

a grip area on said exposed end of said casing.

5 (Currently Amended). The optical jumper according to claim 1 wherein said first connector and said second connector are approximately 1 inch apart ~~so as to reduce optical loss in said optical fiber.~~

6 (Currently Amended). The optical jumper according to claim 1, wherein said first connector and said second connector are between approximately $\frac{1}{2}$ and approximately $1\frac{1}{2}$ inches apart ~~so as to reduce optical loss in said optical fiber.~~

7 (Cancelled).

8 (Currently Amended). The optical jumper according to claim 1, wherein said optical fiber has an inner bend radius between approximately 0.4 inches and 0.75 inches ~~so as to reduce optical loss therein.~~

9 (Previously Presented). An optical add/drop system comprising:

a first WDM having a plurality of first fiber optic lines

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for carrying monochromatic signals and at least one first fiber optic line for carrying polychromatic signals extending therefrom;

a second WDM having a plurality of second fiber optic lines for carrying monochromatic signals and at least one second fiber optic line for carrying polychromatic signals extending therefrom;

a first group of ports operatively connected to said plurality of first fiber optic lines;

a second group of ports operatively connected to said plurality of second fiber optic lines; and

at least one optical jumper having an optical fiber with a first connector on a first end of the optical fiber and a second connector on a second end of the optical fiber, said first connector for connecting to at least one of said first group of ports and said second connector for connecting to at least one of said second group of ports for facilitating optical communication between said at least one first fiber optic line of said first WDM and said at least one second fiber optic line of said second WDM.

10 (Previously Presented). The optical add/drop system according to claim 9 wherein:

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said optical jumper has a casing having a connector end;
and

said first connector and said second connector are disposed
at said connector end.

11 (Original). The optical add/drop system according to claim 9
further comprising:

a sensor proximate at least one of said first group of
ports and at least one of said second group of ports for
detecting a presence of an optical jumper proximate said ports.

12 (Previously Presented). The optical add/drop system
according to claim 11 wherein said sensor is a magneto-resistive
device for sensing the presence of magnet carried by said
optical jumper.

13 (Previously Presented). The optical add/drop system
according to claim 12 wherein said sensor is a Hall effect
sensor for sensing the presence of a magnet carried by said
optical jumper.

14 (Previously Presented). The optical add/drop system
according to claim 9 further comprising:

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means for sensing a presence of an optical jumper proximate said ports.

15 (Previously Presented). The optical add/drop system according to claim 11 wherein said optical jumper has a magnet carried by said casing for activating said sensor in the optical add/drop device.

16 (Previously Presented). The optical add/drop system according to claim 15 wherein said magnet is located between said first connector and said second connector.

17 (Previously Presented). The optical add/drop system according to claim 10 wherein said casing has an exposed end having a grip area.

18 (Currently Amended). The optical add/drop system according to claim 10 wherein said first connector and said second connector are spaced approximately 1 inch apart ~~so as to reduce optical loss in said optical fiber.~~

19 (Currently Amended). The optical add/drop system according to claim 10, wherein said optical fiber has an inner bend radius

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of greater than approximately 0.4 inches ~~so as to reduce optical loss therein.~~

20 (Currently Amended). The optical add/drop system according to claim 10, wherein said optical fiber has an inner bend radius between approximately 0.4 inches and 0.75 inches ~~so as to reduce optical loss therein.~~

21 (Previously Presented) The optical add/drop system according to claim 10, wherein said optical jumper transmits an optical signal with an optical loss of less than 0.75dB.

22 (Original). The optical add/drop system according to claim 10 further comprising:

an LED proximate at least one of said groups of ports for indicating the presence of an optical jumper within said ports.

23 (Previously Presented). A method of detecting a presence of an optical jumper in an optical add/drop device comprising the steps of:

providing a magneto-resistive device proximate ports for an optical jumper;

providing a magnet on said optical jumper;

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installing said optical jumper in said ports; and
detecting a presence of said magnet with said magneto-
resistive device.

24 (Original). The method according to claim 23 further
comprising the step of:

indicating the presence of said optical jumper with an
indicator.